

ABSTRACT

The present invention relates to a method of simulating an indoor behavior of a pesticidal compound, and aims to provide a simulation method which can process simultaneous differential equations necessary for simulation accurately in a short time, and to evaluate safety of the compound with respect to a human body.

In order to achieve the above-mentioned object, the simulation method of the present invention comprises a step of dividing an indoor environment into predetermined media and forming a differential equation concerning a fugacity of the compound in each of the media; a step of determining the fugacity of the compound in each of the media from the differential equation; a step of determining the indoor behavior of the compound from the fugacity of the compound in each of the media; a step of changing, in response to a fluctuation in mass balance of the compound indoors, a minute time unit used when solving the differential equation; and a step of evaluating, according to the indoor behavior of the compound, safety of the compound with respect to the human body.